



DESCRIPTION

Ready-to-use cement-based polymer reinforced grout, single-component, self-leveling, fast-setting, and ready for application. Its special formulation provides excellent adhesion to surfaces and prevents shrinkage. It can be used for lifting manhole covers, installing traffic signals, fixing concrete elements, and installing steel columns. It is also suitable for repairing concrete floors exposed to vehicle and pedestrian traffic. Self-leveling, bonds exceptionally well with old concrete. Does not crack, does not corrode, and is non-toxic. Resistant to chlorides, sulfates, and oils. Consistency can be adjusted. Impact and vibration resistance. Non-metallic, unaffected by ambient humidity. Dust-free provides a smooth, non-porous finishing surface. Easy to apply, can be opened to light pedestrian traffic within 1 hour. Can be sandwiched after curing.

PRODUCT FEATURES	AREAS OF USE
Excellent adhesion Unaffected by ambient humidity Fast setting Open to light pedestrian traffic within 1 hour Excellent crack resistance Excellent abrasion and wear resistance $\geq 40 \text{ N/mm}^2$ compressive strength Easy and fast application Can be applied in layers Smooth, non-porous finishing surface Application thickness: 10 – 60 mm	Suitable for properly prepared surfaces: As grout for manhole covers, traffic signals, concrete floors, support plates, industrial floors, machinery bases, rail supports, and precast building columns. Ready-to-use! Follow application instructions carefully. Consult us for other applications

IMPORTANT NOTICE

Related Standard	EN 13813
Product Class	C40 – F7
Document Number	007446-TSE-07/02
Product System	CT Type

Service Temperature	+20°C – +350°C
Reaction to Fire	A1 (Noncombustible)
Water/Cement Ratio	12 – 16%
Maximum Setting Time	2.5 minutes
Pot Life	5 minutes
Opening Time for Pedestrian	1 hour

TECHNICAL INFORMATION

Property	Value
Appearance / Item Number	04.613/3-C
Color	Grey
DMAX	2.5 mm
Flexural Strength	$\geq 7.0 \text{ N/mm}^2$
Compressive Strength	$\geq 40 \text{ N/mm}^2$
Bond Strength	$\geq 2.0 \text{ N/mm}^2$
Density	$2.05 - 2.25 \text{ kg/dm}^3$
Application Thickness	10 – 60 mm
Water Absorption	$\leq 0.5 \text{ kg/m}^2 \cdot \text{h}^{0.5}$
Results after 28 days	At $+23 \pm 2^\circ\text{C}$, $50 \pm 5\% \text{ RH}$

SURFACE PREPARATION

All surfaces must be clean, dry, sound, and free from dirt, grease, oil, wax, mold, and other contaminants. Remove loose coatings, chalk, flaky, or cracked surfaces by hand scraping, wire brushing, pressure washing, or mechanical cleaning such as sandblasting. Remove dust by vacuuming or sweeping; residual dust reduces adhesion. Ensure surface is clean and sound. Remove standing water before application. Pre-wet concrete surfaces with clean water for 2–6 hours if needed. Surfaces must be free from grease, oil, rust, or cutting chips. All formwork must be strong and sealed to prevent leakage. Apply form oil and isolate joints. Prepare a suitable hopper or pour point to maintain a continuous lift of 150–200 mm during grouting.

PRODUCT APPLICATION

Add 3–4 liters of clean water to a 25 kg bag. Suitable mixers: single or twin-shaft paddle or fixed mixers. Mix half of the powder with the water until homogeneous at low speed (≤ 500 rpm) for at least 1 minute. Add remaining powder and mix until lump-free. Do not add extra water. Pour immediately; placement should not exceed 2.5 minutes. Ensure air bubbles escape completely to avoid voids. Apply sufficient pressure when filling base plate gaps. Assist flow with steel strap or chain if necessary. Layer thickness: 10–60 mm. For cylindrical anchor fills, conduct preliminary testing. For large-scale works, use grout pumps. Clean all equipment immediately with water.

APPLICATION NOTES

Wear appropriate clothing, goggles, and masks.

Do not apply on frozen, thawing, or frost-exposed surfaces within 24 hours.

Avoid direct sunlight, strong wind, or hot surfaces; cover the work area while maintaining proper ventilation.

Ambient temperature during application: $+20^{\circ}\text{C}$ – $+35^{\circ}\text{C}$.

Determine leveling requirements before application.

Material may flow rapidly at high temperatures.

Mix powder only with water at specified ratios. Do not add foreign materials.

Not suitable for continuously wet or loose surfaces.

Not suitable for wooden floors.

Do not use vibration during application.

Pour or pump from one direction only.

For best results, condition material between $+15^{\circ}\text{C}$ – $+25^{\circ}\text{C}$.

Apply in a single layer of 10–60 mm.

For thicker layers, add clean washed aggregate to the powder:

5–10 mm aggregate for up to 100 mm thickness

5–15 mm aggregate for up to 150 mm thickness

Do not exceed 30% of the grout; may reduce strength and flow by 20–40%.

Aggregate may be added by mixing into the grout or sprinkling over the floor and pouring grout on top.

Aggregate	Maximum Layer Thickness
Clean 5–10 mm	Up to 100 mm
Clean 5–15 mm	Up to 150 mm

- Note: Aggregate must not exceed 30% of the grout; adding aggregate may reduce strength and flow by 20–40%.

CONSUMPTION – SHELF LIFE – STORAGE

- Consumption: 1 mm thickness = $2.0 - 2.2 \text{ kg/m}^2$
- Storage: Keep in original packaging in a dry environment, $+2^{\circ}\text{C}$ – $+35^{\circ}\text{C}$.
- Shelf life: ≥ 12 months in unopened package.
- Close packaging tightly when not in use. Do not use expired or hardened product

COMPRESSIVE STRENGTH

Age	Compressive Strength (N/mm ²)
1 hour	10-20
1 day	20-30
28 days	≥ 45

WARRANTY & DISCLAIMER

Information in this document is based on scientific and practical knowledge.

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